

CLAIMS

What is claimed is:

1. A display device for projecting an image alternatively onto a remote surface and a rear projection screen, the display device comprising:
 - a base;
 - a projector affixed to the base;
 - a rear projection screen mounted on the base;
 - a housing extending rearward of the rear projection screen, the housing having an opening formed therein;
 - a mirrored surface within the housing, the mirrored surface angled to reflect light from the projector onto the rear projection screen; and
 - wherein the rear projection screen and the housing are pivotal on the base for selectively exposing the projector for projection onto the remote surface and engaging the projector within the opening for projection through the opening at the mirrored surface.
2. The display device of claim 1 wherein the housing is collapsible.
3. The display device of claim 2 further including a support structure for the mirrored surface, wherein the support frame is collapsible within the housing.
4. The display device of claim 1 wherein the rear projection screen is detachable from the base.
5. The display device of claim 1 wherein the projector includes a lens adjustable to focus selectively on the rear projection screen and the remote surface.
6. A display device for projecting an image alternatively onto a remote surface and a rear projection screen, the display device comprising:
 - a base;

a projector affixed to the base;
a rear projection screen mounted on the base;
a housing extending rearward of the rear projection screen, the housing having an opening formed therein;
means for reflecting light emitted into the housing from the projector onto the rear projection screen; and
means for selectively exposing the projector for projection onto the remote surface and engaging the projector within the opening for projection through the opening at the means for reflecting light.

7. The display device of claim 6 wherein the means for selectively exposing the projector and engaging the projector within the opening includes means for pivoting the rear projection screen and the housing on the base.

8. The display device of claim 6 wherein the means for selectively exposing the projector and engaging the projector within the opening includes means for removing the rear projection screen and the housing from the base.

9. The display device of claim 6 further including means for collapsing the housing.

10. The display device of claim 6 wherein the rear projection screen is detachable from the housing.

11. The display device of claim 6 further including collapsible means for supporting the means for reflecting light.

12. The display device of claim 6 further including means for focusing light emitted from the projector selectively on the rear projection screen and the remote surface.

13. The display device of claim 6 further including means adjusting an aspect ratio of the projector between 4:3 and 16:9.

14. A method for converting a display device from a rear projection display device into a front projection display device, the method comprising:

collapsing a support structure for a mirrored surface within a housing of the display device;

collapsing a housing of the display device;

removing the housing from around a projector supported in a base of the display device.

15. The method of claim 14 wherein removing the housing from around the projector includes pivoting a rear projection screen and the housing on the base.

16. The method of claim 14 wherein removing the housing from around the projector includes removing a rear projection screen and the housing from the base.

17. The method of claim 14 further including adjusting a lens of the projector to focus on a remote surface.

18. The method of claim 14 further including adjusting an aspect ratio of the projector from 4:3 to 16:9.

19. A method for converting a display device from a front projection display device into a rear projection display device, the method comprising:

concealing a projector, supported in a base of the display device, within a housing of the display device;

expanding the housing of the display device; and

expanding a support structure for a mirrored surface within the housing.

20. The method of claim 19 wherein concealing the projector within the housing includes pivoting a rear projection screen and the housing on the base.

21. The method of claim 19 wherein concealing the projector within the housing includes installing a rear projection screen and the housing onto the base.

22. The method of claim 19 further including adjusting a lens of the projector to focus on a rear projection screen.

23. The method of claim 19 further including adjusting an aspect ratio of the projector from 4:3 to 16:9.